CLAIMS

What is claimed is:

1. A method of reading data from a synchronous content addressable memory (CAM) device, comprising the steps of:

instructing the CAM device to compare comparand data with data stored in a plurality of first CAM cells;

comparing the comparand data with the data stored in each of the plurality of first CAM cells;

sensing data stored in a second CAM cell; and

outputting the sensed data from the CAM device, wherein the instructing, comparing, sensing, and outputting steps all occur in one clock cycle.

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